

In re Patent Application of:

PHILLIPS ET AL.

Serial No. 10/705,610

Filed: November 10, 2003

Amendments to the Claims

1. (currently amended) A security article, comprising:
 - (a) a light transmissive substrate having a first surface and an opposing second surface, the first surface ~~having an optical interference pattern associated therewith, said optical interference pattern comprises~~ microstructures having dimensions in the range from about 0.1 microns to about 10 microns forming an optical interference pattern; and,
 - (b) a color shifting multilayer optical coating overlying the second surface of the substrate.
2. (original) The security article of claim 1, wherein the microstructures have dimensions in the range from about 0.1 microns to about 1 micron.
3. (original) The security article of claim 1, wherein the color shifting multilayer optical coating comprises:
an absorber layer overlying the second surface of the substrate;
a dielectric layer overlying the absorber layer; and
a reflector layer overlying the dielectric layer.
4. (original) The security article of claim 1, wherein the color shifting multilayer optical coating comprises:
an absorber layer overlying the second surface of the substrate;
a dielectric layer overlying the absorber layer; and
an absorber layer overlying the dielectric layer.

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5. (original) The security article of claim 1, wherein the color shifting multilayer optical coating comprises alternating layers of low and high index of refraction dielectric layers.

6. (original) The security article of claim 1, wherein the color shifting multilayer optical coating comprises a plurality of multilayer color shifting flakes dispersed in a polymeric medium.

7. (original) The security article of claim 1, further comprising a laser ablated image formed in said optical coating.

8. (original) The security article of claim 1, further comprising an adhesive layer laminating said optical coating to said second surface of the substrate.

9. (original) The security article of claim 1, wherein said security article is in the form of a security thread.

10. (original) The security article of claim 1, further comprising an adhesive layer overlying the optical coating for securing the security article to an object.

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11. (original) The security article of claim 1, wherein the optical interference pattern is formed on said light transmissive substrate.

12. (original) The security article of claim 1, wherein the optical interference pattern is on a layer secured to the light transmissive substrate.

13. (original) A security article comprising:

(a) a light transmissive substrate having a first surface and an opposing second surface, the first surface having an optical interference pattern associated therewith;

(b) a color shifting multilayer optical coating overlying the second surface of the substrate; and

(c) a laser ablated image formed in said optical coating.

14. (original) The security article of claim 13, wherein the optical interference pattern comprises microstructures having dimensions in the range from about 0.1 microns to about 10 microns.

15. (original) The security article of claim 13, wherein the optical interference pattern comprises microstructures having dimensions in the range from about 0.1 microns to about 1 micron.

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16. (original) The security article of claim 13, wherein the color shifting multilayer optical coating comprises:

an absorber layer overlying the second surface of the substrate;

a dielectric layer overlying the absorber layer; and

a reflector layer overlying the dielectric layer.

17. (original) The security article of claim 13, wherein the color shifting multilayer optical coating comprises:

an absorber layer overlying the second surface of the substrate;

a dielectric layer overlying the absorber layer; and

an absorber layer overlying the dielectric layer.

18. (original) The security article of claim 13, wherein the color shifting multilayer optical coating comprises alternating layers of low and high index of refraction dielectric layers.

19. (original) The security article of claim 13, wherein the color shifting multilayer optical coating comprises a plurality of multilayer color shifting flakes dispersed in a polymeric medium.

20. (original) The security article of claim 13, further comprising an adhesive layer laminating said optical coating to said second surface of the substrate.

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21. (original) The security article of claim 13, wherein said security article is in the form of a security thread.

22. (original) The security article of claim 13, further comprising an adhesive layer overlying the optical coating for securing the security article to an object.

23. (original) The security article of claim 13, wherein the optical interference pattern is formed on said light transmissive substrate.

24. (original) The security article of claim 13, wherein the optical interference pattern is on a layer secured to the light transmissive substrate.

25. (original) A security article comprising:

(a) a light transmissive substrate having a first surface and an opposing second surface, the first surface having an optical interference pattern associated therewith; and

(b) a color shifting multilayer optical coating overlying the second surface of the substrate, and

(c) an adhesive layer laminating said optical coating to said second surface.

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26. (original) The security article of claim 25, wherein the optical interference pattern comprises microstructures having dimensions in the range from about 0.1 microns to about 10 microns.

27. (original) The security article of claim 25, wherein the optical interference pattern comprises microstructures having dimensions in the range from about 0.1 microns to about 1 micron.

28. (original) The security article of claim 25, wherein the color shifting multilayer optical coating comprises:

an absorber layer overlying the second surface of the substrate;

a dielectric layer overlying the absorber layer; and

a reflector layer overlying the dielectric layer.

29. (original) The security article of claim 25, wherein the color shifting multilayer optical coating comprises:

an absorber layer overlying the second surface of the substrate;

a dielectric layer overlying the absorber layer; and

an absorber layer overlying the dielectric layer.

30. (original) The security article of claim 25, wherein the color shifting multilayer optical coating comprises alternating layers of low and high index of refraction dielectric layers.

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31. (original) The security article of claim 25, wherein the color shifting multilayer optical coating comprises a plurality of multilayer color shifting flakes dispersed in a polymeric medium.

32. (original) The security article of claim 25, further comprising a laser ablated image formed in said optical coating.

33. (original) The security article of claim 25, wherein said security article is in the form of a security thread.

34. (original) The security article of claim 25, further comprising an adhesive layer overlying the optical coating for securing the security article to an object.

35. (original) The security article of claim 25, wherein the optical interference pattern is formed on said light transmissive substrate.

36. (original) The security article of claim 25, wherein the optical interference pattern is on a layer secured to the light transmissive substrate.